ASTD/TDI Project Static Report

Integrated Suite of Technologies for Delineation of Contamination in Support of Radioactive Soil Remediation Systems

Focus Area: Subsurface Contaminants Focus Area

Focus Area Manager: Carl Lanigan, (803) 725-0404 Principal Investigator: Rob Janke, (513) 648-3124

Lead Site: Ohio - Fernald

OH08SD10

98-TDI-06

Technology Vendor(s)/Commercial Partner(s):

Tech ID/TMS No.:None identified at this time

Related Publication(s): N/A

Web Page(s):

TTP No.:

Project No.:

Description: ITS is a suite of radionuclide (gamma) soil characterization technologies: mobile radiation tracking system (RTRAK) with GPS,

radiation scanning system (RSS), and portable high-purity Germanium (HpGe) sensors for in-site gamma spec. ITS has been integrated with a real-time mapping and positioning package to provide field support. It has been deployed at FEMP to support soil

excavation activities, reducing the volume of soil to be excavated and disposed as LLRW.

Application: At sites containing soils contaminated with gamma-emitting radionuclides. Optimum deployment conditions include soil moisture

content <30% (lab equivalent), areas with low background radon concentrations, grassy or sparsely wooded areas with small

amounts of gravel, and topographical surfaces with inclines of <30 degrees.

Location(s): Fernald

Technology(ies):

Mobile Radiation Tracking System (RTRAK)

Portable High-Purity Germanium Sensors

Radiation Scanning System (RSS)

Funding (\$K): FY-99 FY-00 FY-01 FY-98 **Total** TTP No.: OH08SD10 \$1,725 \$805 \$825 \$0 \$3,355 EM-40 \$150 **Leverage Source:**

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Funding Total (\$K): \$3,505

Cost Savings (\$M): Proposal Deployment Plan/TTP Current Focus Area Projection

Pending Pending \$34,000

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